

## Product datasheet for **MG217784**

### Dpep2 (NM\_176913) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dpep2 (NM_176913) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dpep2
Synonyms:	F630103D06Rik; MBD-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217784 representing NM\_176913  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTGGCATGGAGAGACATACTGCCTGATTGGAGGCTACCGTGTCTACGGAGATGCGCCGCTTCCCA  
 CACCTGCAAAGGCTGAGCAAGAGGAGAAGCCAGTGCCAGGCGGGCTCCCAAGAGACAGCGAGTTACGGA  
 AGAATCGGATCAAGATCTAGGCTGTCCCGGTGCAAAAGTTCTCGCCTGAAATTAAGCATGGTGGCAAA  
 GGGCTTTCGCGACCCTCATCCGTGCCGGCTTGCTCCGCCCTGAGCAAGATGTCGCTCACGGGCTCAAGG  
 GTCATTGGGTGCTTGGCCATGGGCTTTCAGTGTTCCTGTTGGTGTGCTGCTGTTAGGGCTTACAGCC  
 TCTAATATGGACCCAGACAAAACCAGGCTTCTCTGGTGTCCACTACATCAAGCATCCCCAGAGCACTC  
 ACCAAGCCCGACATTTCCAGCATTCCAACCACTCCTGGCAACCCCAATTTCCAGACCTGCGAGATCGCG  
 CAAGAGCTCTGATGCAGGAGTCCCGCTTATAGATGGCCACAATGACATGCCTCTGTCTGAGACAATT  
 TTACCAGAATGGACTACAAGATGCTAACCTGAGAACTTACCCATGGCCAGACCAGCCTGGATAGGCTT  
 AAAGATGGCTTGGTGGGAGCCAGTTCTGGTCTGCTTACGTACCATGCCAGACGCAGGACCGGGATGCC  
 TGGCTCTCACTCTGGAGCAGATAGACCTCATTCCGAGAATATGTGCCTCTTATTCTGAGCTGGAACCTGT  
 GACCTCAGTTAAAGTTAAGTGGATTTATTCAGGCACCCAGAAATGGCTTGCCTCATTGGTGTGGAAGGT  
 GGCCATTCAGTACAGACAGCCTCGCTGTGCTTCAAGTCTTACCTGCTGGGGTGGCTACCTGACGC  
 TCACACACACCTGCAACACACCTGGGCAGAGACCTCATCCAAGGTGTCCACGCATTCTACAGCAGTGT  
 CACTGGACTGACCAGCTTGGTGAAGGTGGTGGCAGAAATGAATCGCTTAGGTATGATGGTTGATCTG  
 TCCACGCTCGGATGCTGCAGCCAGGCGGCTTGAAGTATCCAAGCCCTGTGATTTCTCCCACT  
 CCGTGGCAGGGCTGTGTGCCAAATGCTCGGAATCTTCTGATGACCTCCTGCAGCTTCTGAAGAAGAA  
 CGGTGGCATCGTATGGTACCTTCTCCGTAGGAGTGTACCGTGAACCCCTTAGCCAATGTATCCACT  
 GTGGCAGAGAAAGGTGAGCAGAAGCAGTCTTACTCCACCCAGAGACACACACTTCGTGTGATCATCG  
 GATCCGAGTTCATCGAATTGGCGGAGATTATGATGGTACCAAACAGTCCCTCAGGGCCTGGAGGATGT  
 GTCTACATACCCAGTGTCTATAGAGGAGTGTGAGACGAGGCTGGAATGAACAGGAACTCCAAGGCATC  
 CTTGAGGAAACCTGCTTCGGTCTTCCGACAAGTGGAGCAGGTCGAGACAAAAGCAAATGGCAAAGTC  
 CCCTGGAAGACATGATCCAGAGGAGCAGCTGGACAGTGTGCCACTCAGCCCTGCGACCTCAGAAACA  
 GCATCCAGAAAAGAACCAACCGGAGACTCCAGAATATCATATACTCAAGTCTCACACTCGAAATCCTCT  
 CCCACATTGTCCAAGCCTCGCCATTGTTGCGACCTTATTAGGCCTTATTGTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217784 representing NM\_176913  
 Red=Cloning site Green=Tags(s)

MAWHGETYCLIGYRVYGDAPLPTPAKAEQEEKVPRRAPKRQRVQEEESDQDLGCPGAKVPRLKLGKGGK  
 GLSRPSSVPACALSMSLTGLKGHWLGHLSVFLVLLLLGPSQPLIWTQKPGFSGASTTSSIPRAL  
 TKPDISSIPTTPGNPNFPDLRDRARALMQEFLIDGHNDMPLVLRQFYQNGLQDANLRFTHGQTSLDRL  
 KDGLVGAQFWSAYVPCQTQDRDALRLTLEQIDLIRRICASYSELELVTSVKVKWIYSGTQKLAELIGVEG  
 GHSLDNSLAVLRSFYLLGVRYLTLTHTCNPWAETSSKGVHAFYSSVTGLTSFGEKVVAEMNRLGMMVDL  
 SHVSDAAARRALEVSQAPVIFSHSAARAVCPNARNLPDDLQLLKNNGI VMVTF SVGVLP CNPLANVST  
 VAEKGQKQKHFPPRDTHFVSVIGSEF IGIGDYDGTQKQFQGLEDVSTYPVLEIELLRGWNEQELQGI  
 LRGNLLRVFRQVEQVRDKSKWQSPLLEDMIPEEQQLDSACHSALRPQKQHPKQNPETPEYHILKFSKSS  
 PHIVPSLAIVATLLGLIV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_176913

**ORF Size:** 1734 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_176913.4](#), [NP\\_795887.2](#)

**RefSeq Size:** 1766 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 319446

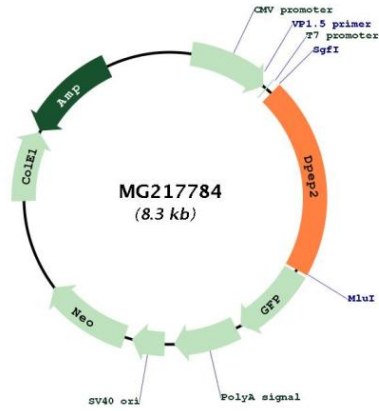
**UniProt ID:** [Q8C255](#)

**Cytogenetics:** 8 D3

**Gene Summary:**

Probable metalloprotease which hydrolyzes leukotriene D4 (LTD4) into leukotriene E4 (LTE4).  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG217784